

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claim 1-5 (Canceled)

Claim 6 (Currently Amended). ~~The A radio reception apparatus, according to claim 5, further comprising:~~

a correlation calculator that performs a correlation calculation on a reception signal with a calculation length using a known signal;

a delay detector that performs a delay detection using a signal obtained from the correlation calculation;

a detector that detects a synchronization timing based on the delay detection;

a frequency estimator that estimates a frequency component included in a signal obtained from the delay detection; and

first a calculation length controlling means for controlling said controller that controls the calculation length based on the frequency component estimated by the frequency estimating means estimator.

Claim 7 (Currently Amended). The radio reception apparatus according to claim 6, wherein the first calculation length controlling means controller increases the calculation length as the frequency estimated by said the frequency estimating means estimator approximates to a target frequency.

Claim 8 (Currently Amended). The radio reception apparatus according to claim 6, wherein

the ~~first~~ calculation length ~~controlling means~~ controller controls the calculation length according to the ~~a~~ number of times the synchronization timing is detected.

Claims 9-10 (Canceled).

Claim 11 (Currently Amended). ~~The A~~ radio reception apparatus, ~~according to claim 1,~~ further comprising:

a correlation calculator that performs a correlation calculation on a reception signal with a calculation length using a known signal;

a delay detector that performs a delay detection using a signal obtained from the correlation calculation;

a detector that detects a synchronization timing based on the delay detection; and

a reception situation estimating means for estimating the estimator that estimates a reception situation from the reception signal; and

~~second~~ a calculation length controlling means for controlling said controller that controls the calculation length according to the reception situation estimated by said ~~the~~ reception situation estimating means estimator.

Claim 12 (Currently Amended). The radio reception apparatus according to claim 11, wherein the ~~second~~ calculation length ~~controlling means~~ controller increases the calculation length when the reception situation is bad and decreases the calculation length when the reception situation is good.

Claim 13 (Currently Amended). The radio reception apparatus according to claim 11, wherein the ~~second~~ calculation length ~~controlling means~~ controller controls the calculation length

according to the a number of times the synchronization timing is detected.

Claims 14-17 (Canceled).

Claim 18 (Currently Amended). ~~The A~~ synchronization timing detection method, according to ~~claim 17~~, further comprising:

performing a correlation calculation on a reception signal with a calculation length using a known signal;

detecting a delay using a signal obtained as a result of the correlation calculation;

detecting a synchronization timing from the detected delay;

estimating a frequency component included in a signal obtained as a result of detecting the delay; and

~~a first calculation length controlling step of controlling said the calculation length based on the estimated frequency component estimated by the frequency estimation step.~~

Claim 19 (Currently Amended). ~~The A~~ synchronization timing detection method, according to ~~claim 14~~, further comprising:

performing a correlation calculation on a reception signal with a calculation length using a known signal;

detecting a delay using a signal obtained as a result of the correlation calculation;

detecting a synchronization timing from the detected delay;

~~a reception situation estimating step of estimating the a reception situation from the reception signal; and~~

~~a second calculation length controlling step of controlling said the calculation length~~

according to the estimated reception situation ~~estimated by said reception situation estimating step~~.

Claim 20 (New). The synchronization timing detection method according to claim 18, wherein controlling the calculation length comprises increasing the calculation length as the estimated frequency approaches a target frequency.

Claim 21 (New). The synchronization timing detection method according to claim 18, further comprising further controlling the calculation length according to a number of times the synchronization timing is detected.

Claim 22 (New). The synchronization timing detection method according to claim 19, wherein controlling the calculation length comprises increasing the calculation length when the reception situation is bad and decreasing the calculation length when the reception situation is good.

Claim 23 (New). The synchronization timing detection method according to claim 19, further comprising further controlling the calculation length according to a number of times the synchronization timing is detected.